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NO. 0174 P. 18

Application No.: 09/833452  
Docket No.: AD6728USNA

**EXHIBIT A**

July 11, 1997

To: H. E. Lancaster

From: G. R. Chetosky

MWR 97-W-4  
PRODUCTION OF BEXLOY® W 710 and 720 RESINS

Background

One of our customer's desires a blow molding resin. The customer was supplied a black version of this resin about a month ago. Now the customer desires colors. This MWR authorizes the production of two colored resin. In addition a different customer is interested in the high viscosity resin in a natural version. This resin will be similar to 710, but will not have mineral and will be known as 720 resin.

Request• Product General Descriptions

## AXW710 PYG001

|                                    |        |
|------------------------------------|--------|
| Surlyn® 9520                       | 25.72% |
| Marlex 50100                       | 60.26% |
| Surlyn® CS8749-5 (ZnO Concentrate) | 0.73%  |
| Platinum Concentrate (FM47354NMB)  | 4.00%  |
| Irganox 1010                       | 0.15%  |
| Irganox B215                       | 0.15%  |
| Tinuvin 770DF                      | 0.15%  |
| Chimassorb 944FD                   | 0.29%  |
| Wollastonite NYGLOS 8              | 8.55%  |

## AXW710 LTN001

|                                       |        |
|---------------------------------------|--------|
| Surlyn® 9520                          | 25.72% |
| Marlex 50100                          | 60.26% |
| Surlyn® CS8749-5 (ZnO Concentrate)    | 0.73%  |
| Light Tan Concentrate (FM06022138NMB) | 4.00%  |
| Irganox 1010                          | 0.15%  |
| Irganox B215                          | 0.15%  |
| Tinuvin 770DF                         | 0.15%  |
| Chimassorb 944FD                      | 0.29%  |
| Wollastonite NYGLOS 8                 | 8.55%  |

## AXW720 NC010

|                                    |        |
|------------------------------------|--------|
| Surlyn® 9520                       | 29.00% |
| Marlex 50100                       | 69.44% |
| Surlyn® CS8749-5 (ZnO Concentrate) | 0.81%  |
| Irganox 1010                       | 0.15%  |
| Irganox B215                       | 0.15%  |
| Tinuvin 770DF                      | 0.15%  |
| Chimassorb 944FD                   | 0.30%  |

- Quantities and Timing - Quantities and timing to be determined by the Bexloy business (G. R. Chetosky) and Bexloy Product coordination (J. E. Kreggenwinkel). The first trial to be 3M of the 720 and 5M of each 710 grade in the July campaign.
- Packaging - The product should be packaged in 40 lb. bags or 1200 Lb. boxes per task from product coordination (J. E. Kreggenwinkel).

- Testing

## AXW710 Resins

|                     | <u>Process<br/>Limit</u> | <u>Sales<br/>Limit</u> |
|---------------------|--------------------------|------------------------|
| <u>Release</u>      |                          |                        |
| Ash Content(%)      | TBD                      | 10.0± 1.0              |
| Melt Index          | TBD                      | TBD                    |
| Moisture Content(%) | TBD                      | 0.07 max.              |
| Contamination       | No Lim.-100-0            | No Lim.-100-0          |
| NUPS                | 2000-200-15              | 2000-200-15            |
| CCU                 |                          | Standard               |
| Specific Gravity    | TBD                      |                        |

Characterization

Melt Temperature  
 Specific Gravity Bar  
 Tensile Strength at Yield  
 Elongation at Yield  
 Flexural Modulus  
 Shear Modulus at 23 (once)  
 Notched Izod at 23, -40  
 Heat Deflection Temperature at 1.82 and 0.45 MPa  
 Heat Aging for 1000 hrs  
 Tensile at Yield  
 Impact Strength  
 Flammability (once)  
 Fogging (once)  
 Coefficient of Linear Thermal Expansion (once)  
 Mold Shrinkage (Once).

Post Mold Shrinkage (Once)  
 IR and DSC Scan (Once)  
 Tear Strength  
 Shore hardness  
 Multiaxil for interior and exterior at -30  
 UV1250XIDE  
 UV2500XEDE  
 Florida Weathering  
 Retainer for lab at CMI and ISO Retainer for CMI lab

#### AXW720 Resin

|                     | Process<br><u>Limit</u> | Sales<br><u>Limit</u> |
|---------------------|-------------------------|-----------------------|
| <u>Release</u>      |                         |                       |
| Ash Content(%)      | TBD                     | 0.8± 0.4              |
| Melt Index          | TBD                     | TBD                   |
| Moisture Content(%) | TBD                     | 0.07 max.             |
| Contamination       | No Lim.-100-0           | No Lim.-100-0         |
| NUPS                | 2000-200-15             | 2000-200-15           |
| CCU                 |                         | Standard              |
| Specific Gravity    | TBD                     |                       |

#### Characterization

Melt Temperature  
 Specific Gravity Bar  
 Tensile Strength at Yield  
 Elongation at Yield  
 Flexural Modulus  
 Shear Modulus at 23 (once)  
 Notched Izod at 23, -40  
 Heat Deflection Temperature at 1.82 and 0.45 MPa  
 Heat Aging for 1000 hrs  
 Tensile at Yield  
 Impact Strength  
 Flammability (once)  
 Fogging (once)  


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 Coefficient of Linear Thermal Expansion (once)  
 Mold Shrinkage (Once)  
 Post Mold Shrinkage (Once)  
 IR and DSC Scan (Once)  
 Tear Strength  
 Shore hardness  
 Multiaxil for interior and exterior at -30  
 UV1250XIDE  
 UV2500XEDE

Florida Weathering

Retainer for lab at CMI and ISO Retainer for CMI lab

- Release - Material meeting the release limits should be released to finished product inventory, and Product Coordination (J. Kreggenwinkel) notified.
- Sampling - Sample each lot for the release and characterization testing.
- FDA and PMN Clearances - These compositions are blends of existing resins and does not require a PMN. These products should be added to the Bexloy W MSD sheet (BEX014).
- Customer Notification - These products have been developed for the customer and they are aware of the changes.

Approvals

Bexloy® Product Manager \_\_\_\_\_ Date \_\_\_\_\_

Manufacturing Consultant Hayden P. Tinsley Date Feb 14, 1997